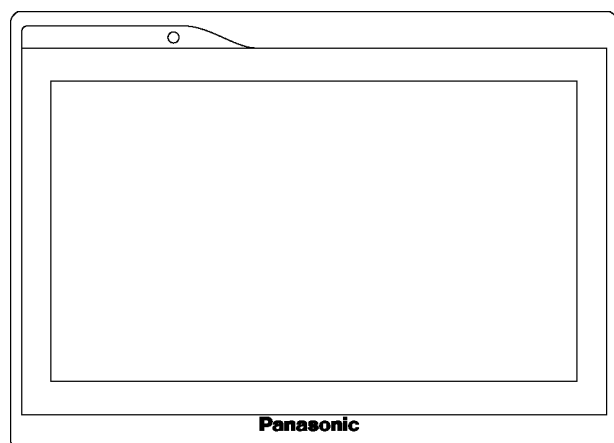


# Service Manual

## Color LCD Monitor

### TC-7WMS1



### Specifications\*

#### Overall System

Power supply	:12V DC(11V-16V) Test Voltage 14.4V, Negative ground
Curent Consumption	:Less than 2.0A
Usage Temperature Range	:0 °C to +40 °C
Storage Temperature Range	:-20 °C to +80 °C

#### Display Unit

Liquid Crystal Panel	:7" wide
Screen Dimensions	:Width 6-1/8" (156mm) Height 3-7/16" (87mm) Diagonal 7" (178mm)
Number of Pixels	:336,960 pixels

Display Method	(234 vertical × 480 horizontal × 3)
Drive Method	:Transparent color filter format :TFT (Thin Film Transistor) active matrix format
Light Source	:Internal light (U-shaped, color cathode fluorescent light)
Sound Output	:1W
Speaker	:4 cm round speaker (one)
Dimensions** (W×H×D)	:7-1/8" × 5-3/16" × 1-5/16" (181×131×34mm)
Weight**	:11lbs. 9oz. (570g)

\* Specifications and the design are subject to possible modification without notice due to improvements.

\*\* Dimensions and weight shown are approximate.

# Panasonic®

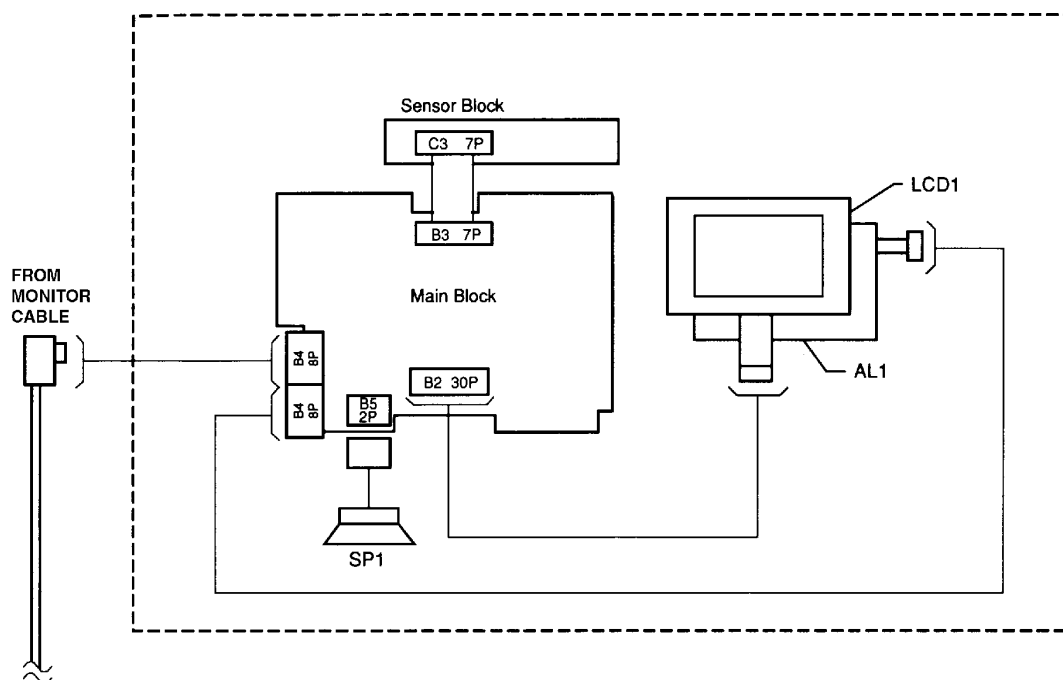
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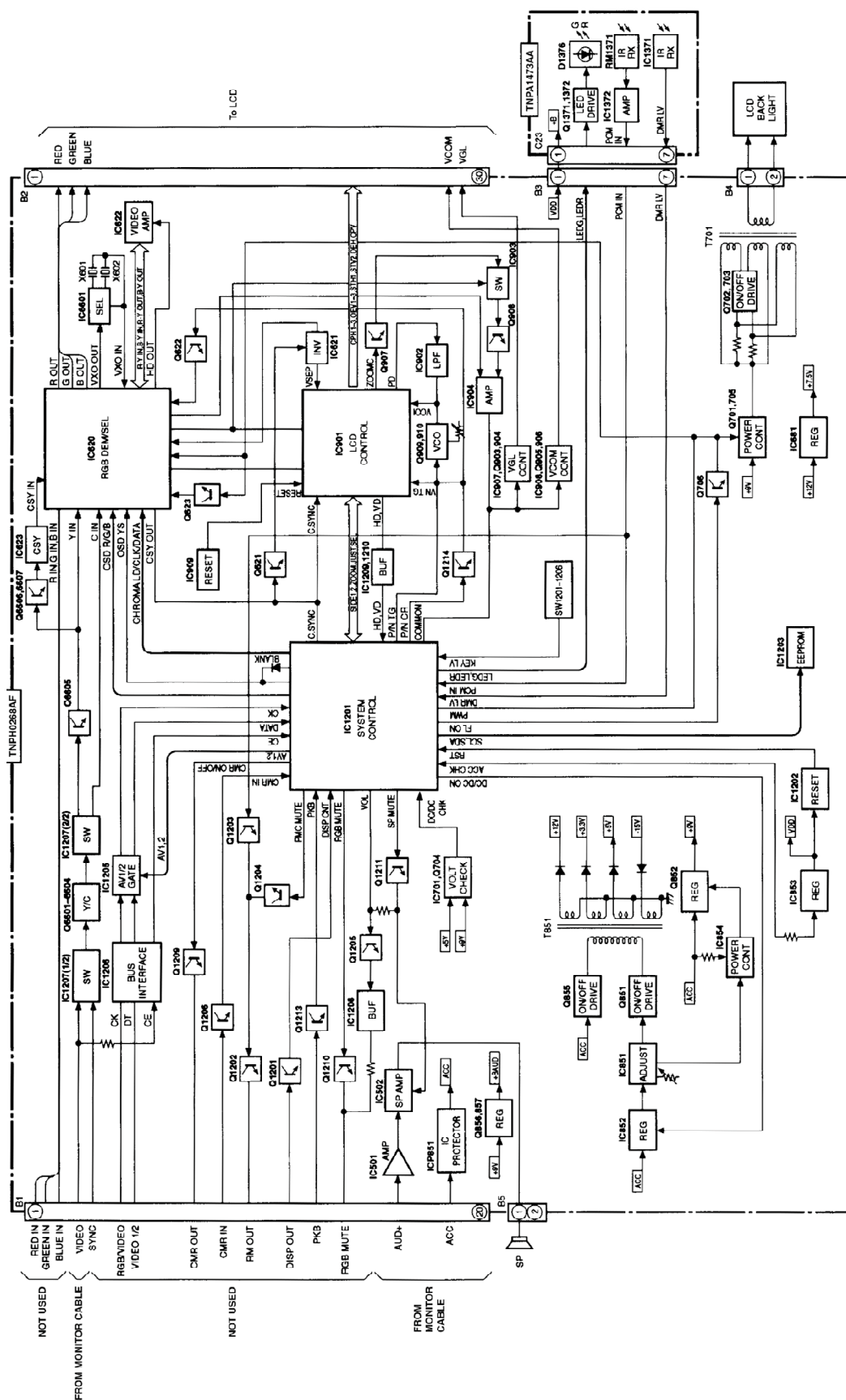
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# 1 WIRING CONNECTION

## 1.1. DISPLAY UNIT



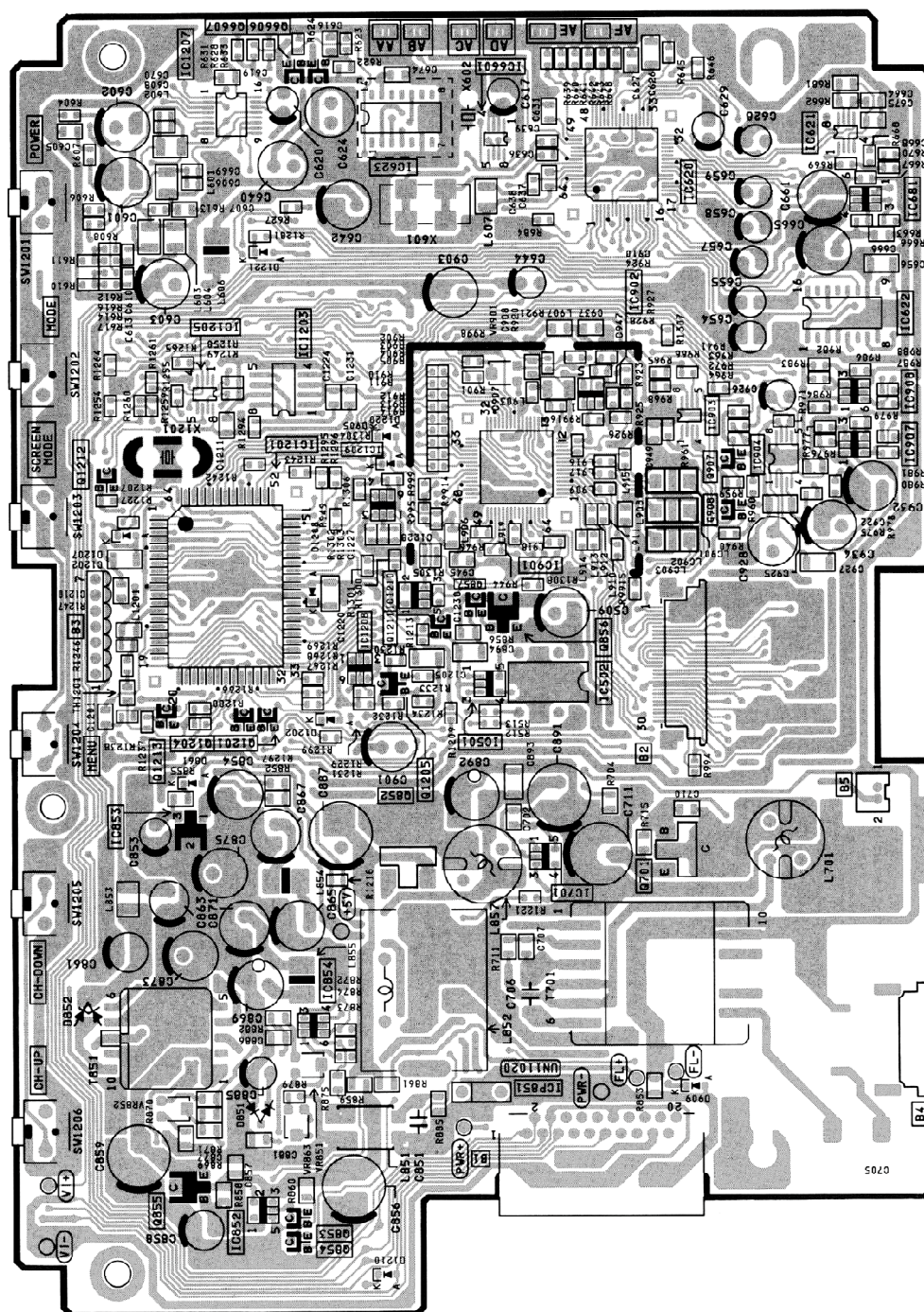
## 2 BLOCK DIAGRAM



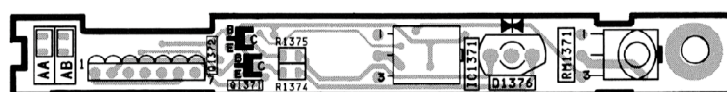


### 3 CONDUCTOR VIEWS

#### 3.1. B-BOARD (COMPONENT SIDE) TNPH0268AF

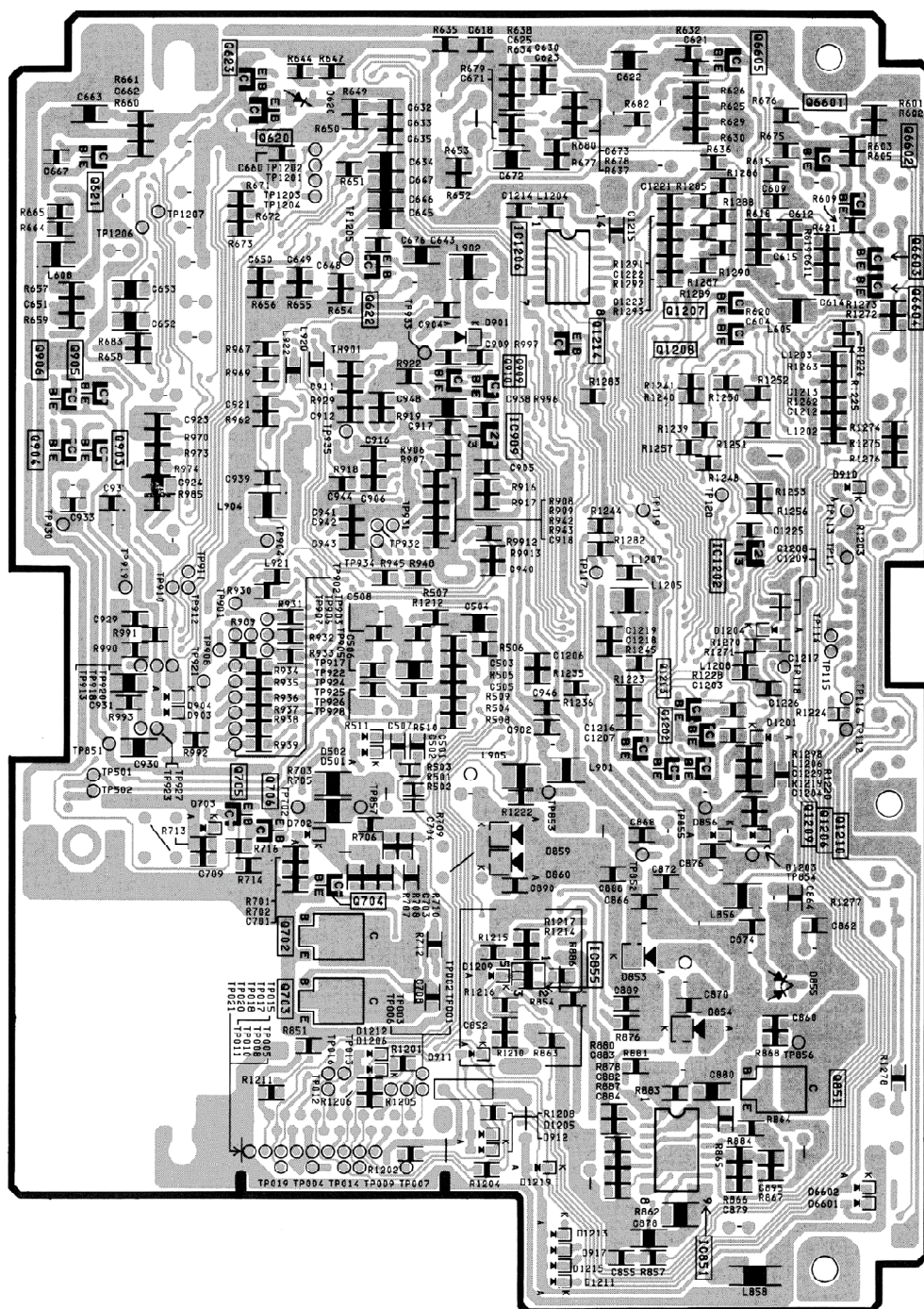


#### 3.2. C2-BOARD (COMPONENT SIDE) TNPA1473AA





### 3.3. B-BOARD (FOIL SIDE) TNPH0268AF

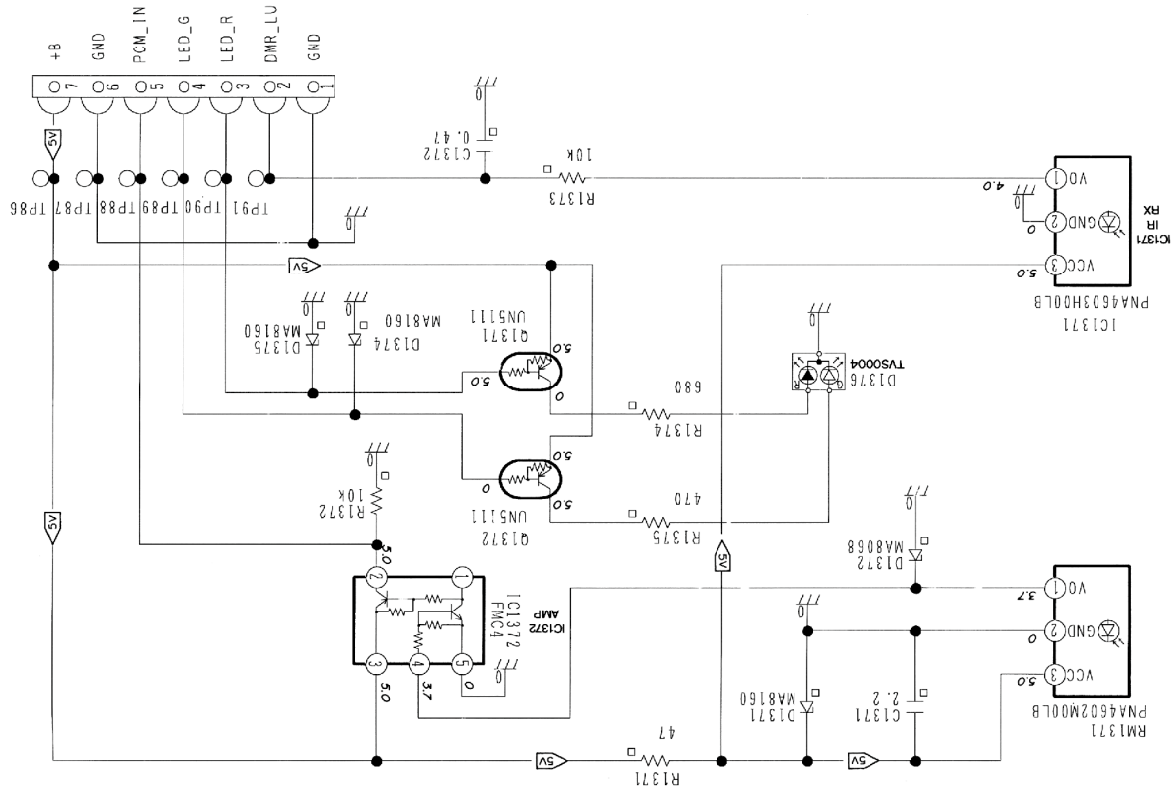


### 3.4. C2-BOARD (FOIL SIDE) TNPA1473AA





## 4.2. C2-BOARD SCHEMATIC DIAGRAM





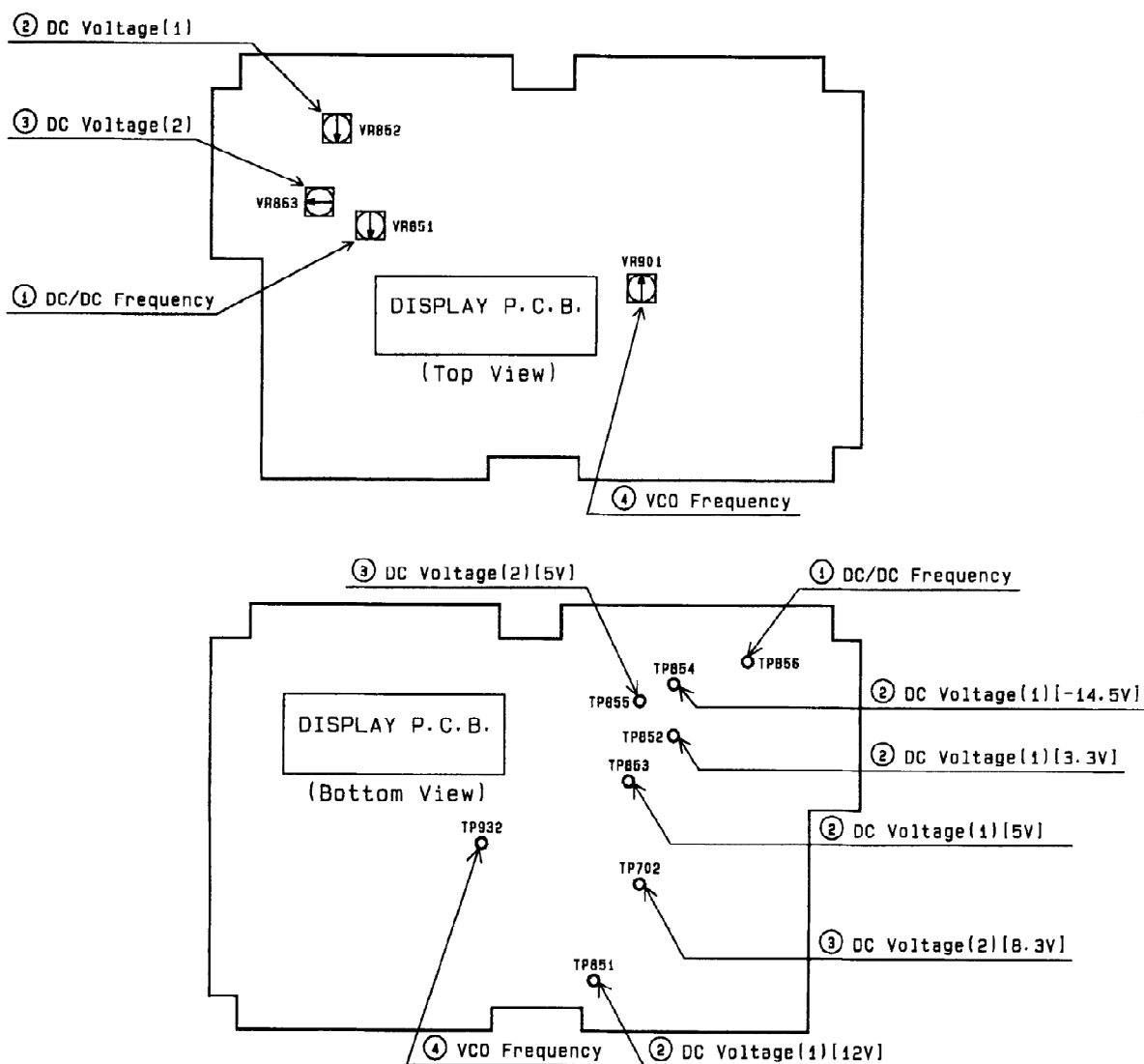
## 5 ALIGNMENT INSTRUCTIONS

### • Display Block

\* Supply DC Voltage:  $13 \pm 0.1\text{V}$ 

Step	Adjustment		Test Point	Adjustment Point	Adjustment (Confirm)	Remarks
1	DC/DC Frequency		TP856	VR851	$145 \pm 1.0 \text{ kHz}$	AV1/NTSC Mode
2	DC Voltage (1)	5V	TP853	VR852	$5.00 \pm 0.05\text{V}$	AV1/NTSC Mode
		12V	TP851	—	$(12 \pm 1.0\text{V})$	
		3.3V	TP852	—	$(3.3 \pm 0.3\text{V})$	
		-14.5V	TP854	—	$(-14.5 \pm 0.8\text{V})$	
3	DC Voltage (2)	8.3V	TP702	VR863	$8.30 \pm 0.05\text{V}$	AV1/NTSC Mode
		5V	TP855	—	$(5.0 \pm 0.5\text{V})$	
4	VCO Frequency		TP932	VR901	$15.734 \pm 20\text{Hz}$	Normal Mode (CAMERA/VIDEO Terminal: Open)

### • Adjustment Point



## 6 TERMINALS DESCRIPTION

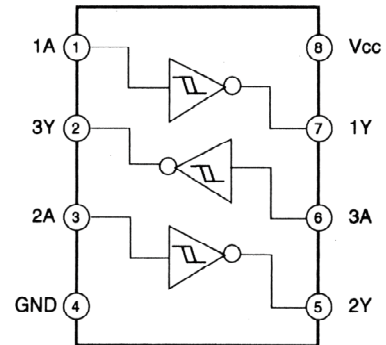
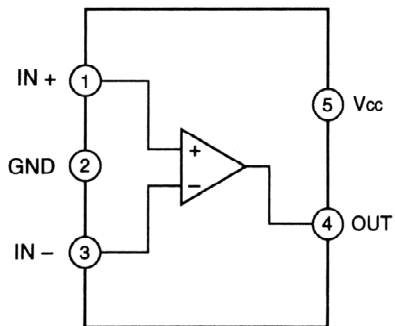
### IC620 AN2526FH

Pin No.	Name	Description	I / O	Vol.(V)
1	VCC1 (5V)	VCC1	—	5.0
2	VREF	Reference Voltage Input	—	2.0
3	R CLAMP	R ch Clamp Detect	—	2.7
4	G CLAMP	G ch Clamp Detect	—	2.7
5	B CLAMP	B ch Clamp Detect	—	2.7
6	DEC R	R ch Decode Output	O	2.0
7	DEC G	G ch Decode Output	O	2.1
8	DEC B	B ch Decode Output	O	2.1
9	R IN	R ch Analog Signal Input	I	2.0
10	G IN	G ch Analog Signal Input	I	2.0
11	B IN	B ch Analog Signal Input	I	2.0
12	R OSD	R ch OSD Input	I	0
13	G OSD	G ch OSD Input	I	0
14	B OSD	B ch OSD Input	I	0
15	BLACK	Side Black Control Puls Input	I	0
16	YS	RGB SW Signal	I	0
17	B OUT	B ch Output	O	2.5
18	B DET	B ch DC Feedback Detect	—	2.5
19	G OUT	G ch Output	O	2.5
20	VCC2 (7.5V)	VCC2 (7.5V)	—	7.3
21	DRV REF	Drive Voltage Control	I	2.4
22	GND2	GND2	—	0
23	G DET	G ch DC Feedback Detect	—	2.5
24	R OUT	R ch Output	O	2.5
25	R DET	R ch DC Feedback Detect	—	2.5
26	VCOM	Common Signal Output	O	4.0
27	T MODE (NC)	—	—	—
28	T CLK (NC)	—	—	—
29	FIELD (NC)	—	—	—
30	CSY OUT	Composite Sync Output	O	0.4
31	/VD OUT	Vertical Sync Output	O	4.8
32	/HD OUT	Horizontal Sync Output	O	4.5
33	PWM	PWM Control Output	O	2.0
34	RST	Power On Reset	I	3.0
35	/VD IN	VD In	I	4.8
36	POL IN	1H Inverted Pulse Input	I	1.6
37	VSS	VSS	—	0
38	CP IN (NC)	—	—	—
39	DAC MON (NC)	—	—	—
40	VDD (3V)	VDD	—	3.0
41	GND3	GND3	—	0
42	RGB SW	Analog OSD Select Pulse	I	0
43	AFC FILTER	AFC Loop Filter Terminal	—	2.2
44	VCO CNT	VCO Frequency Control	I	1.8
45	CSY IN	Composite Sync Input	I	4.5
46	RUS SW	Serial Mode Select Switch	I	0
47	SCLK	Serial Clock Input	I	0
48	SDATA	Serial Data Input	I	0
49	LD	Serial Data Write Pulse	I	0
50	ACC DET	ACC Detect	I	4.1
51	C IN	ACC Input	I	3.0
52	HD DET	Horizontal Clock Detect	—	4.5
53	KILL	Color Filter terminal	—	4.4
54	APC DET	APC Filter terminal	—	2.5
55	VXO IN	VXO Input	I	2.8
56	VXO OUT	VXO Output	O	2.8
57	Y CLAMP	Y Clamp Detect	—	2.7
58	TRAP	Chroma Trap Filter Terminal	—	2.2
59	GND1	GND1	—	0
60	Y IN	Y Signal Input	I	2.8
61	R-Y OUT	R-Y Signal Output	O	2.0
62	B-Y OUT	B-Y Signal Output	O	2.0
63	R-Y IN	R-Y Signal Input	I	2.0
64	B-Y IN	B-Y Signal Input	I	2.0

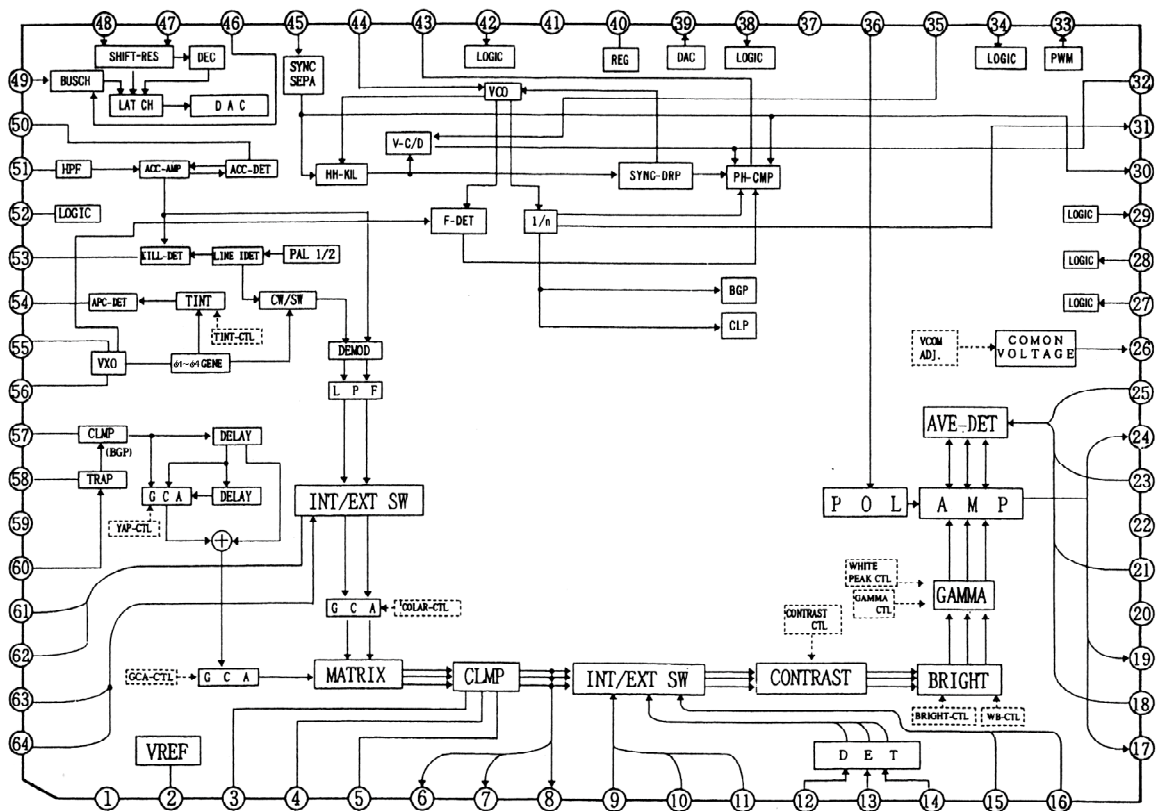
## 7 PACKAGE AND IC BLOCK DIAGRAM (1)

■ IC501 TVSA0187 [TNP0268]

■ IC621 TVS1129 [TNP0268]

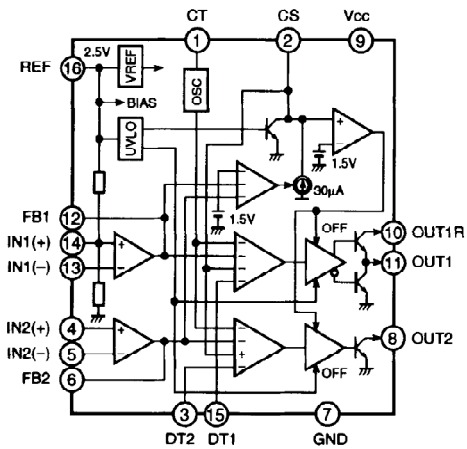


■ IC620 AN2526FH [TNP0268]

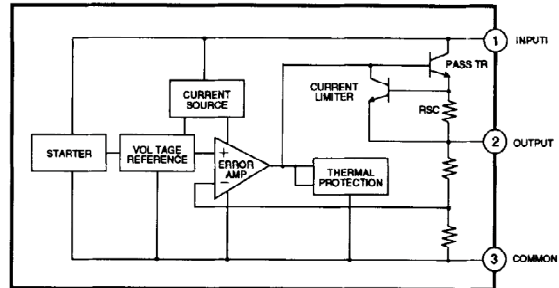


## 8 PACKAGE AND IC BLOCK DIAGRAM (2)

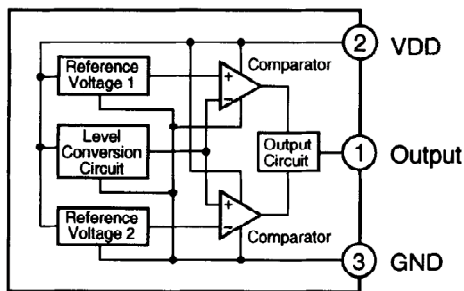
■ IC851 FA7611M



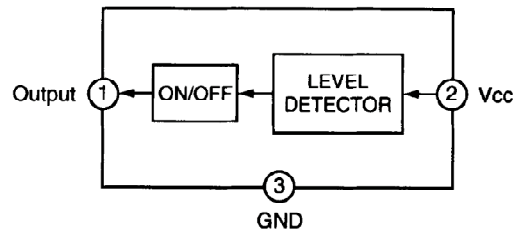
■ IC853 AN78L05M



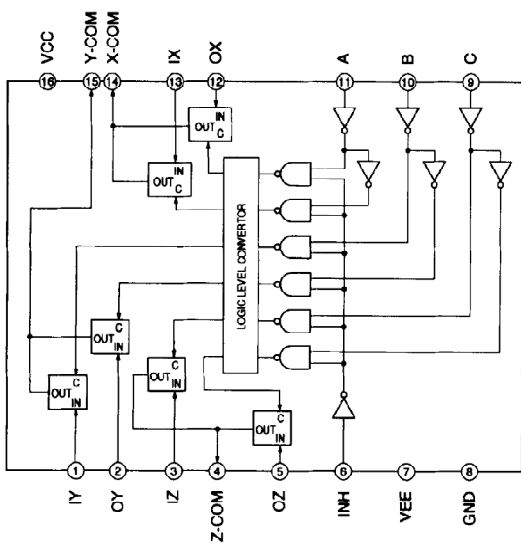
■ IC909 MN13821-G



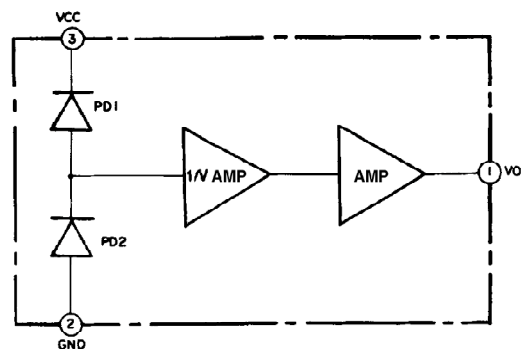
■ IC1202 MN1382-R



■ IC1207 TVSA0272



■ RM1371 PNA4602M00LB

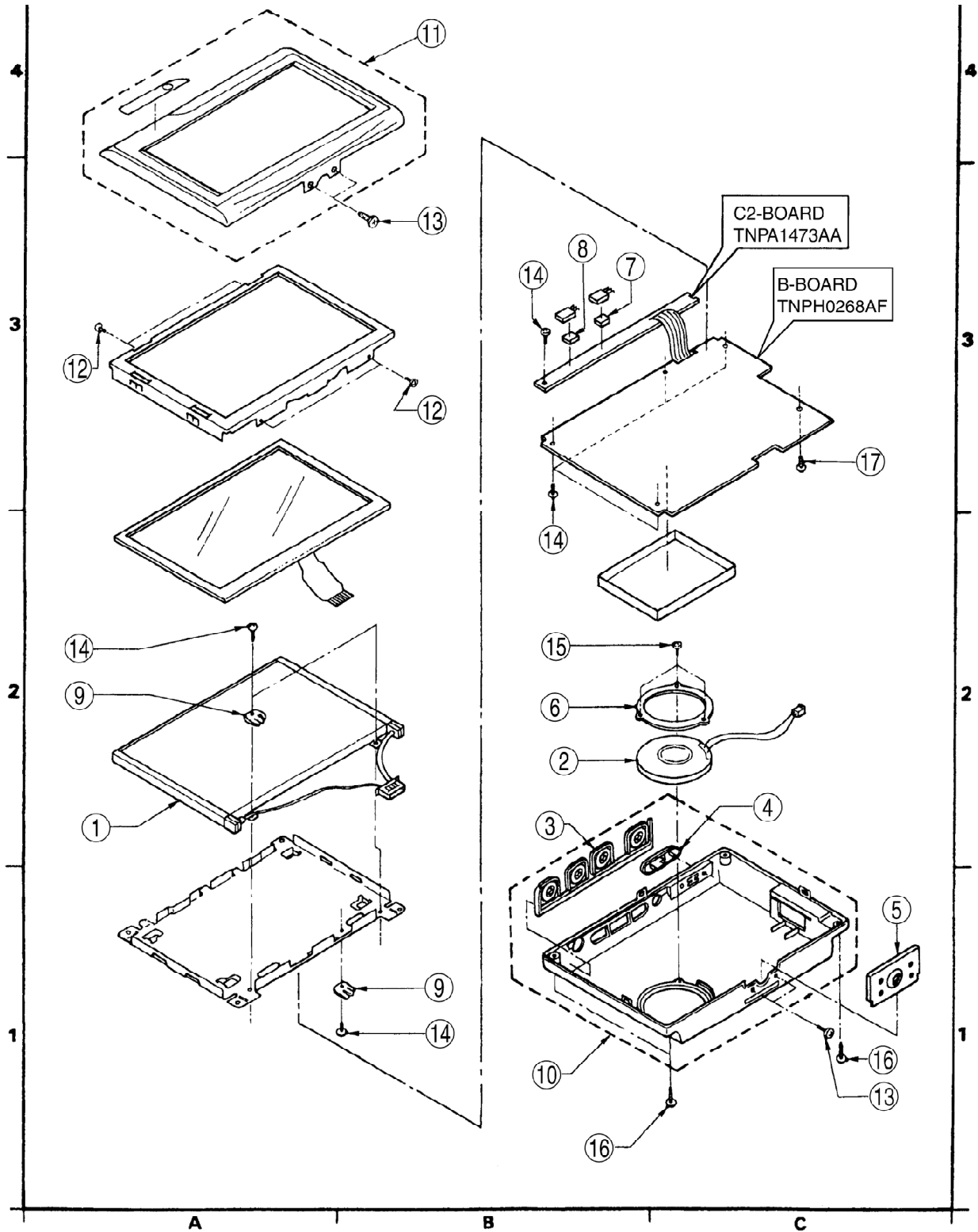




## 9 PARTS LOCATION & MECHANICAL REPLACEMENT PARTS LIST

### 9.1. PARTS LOCATION

■ Numbers in O are indicated REF. No. in the MECHANICAL REPLACEMENT PARTS LIST



## 9.2. MECHANICAL REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	K-BLU70AVCP	FLUORESCENT LAMP	1	
2	TASA0008	SPEAKER	1	
3	TBXA08907	CONTROL BUTTON A	1	
4	TBXA11908	CONTROL BUTTON B	1	
5	TKZA5001-1	PLATE	1	
6	TKZK5001	SPEAKER BRACKET	1	
7	TMKK068	SPACER	1	
8	TMKK069	SPACER	1	
9	TMME045	CLAMPER	2	
	TPCA69808	CARTON BOX	1	
	TPDA0432	CUSHION	1	
	TPDF0502	PARTITION BOARD	1	
	TPEH093	SET COVER	1	
	TQBX0281	INSTRUCTION BOOK	1	
	TQBX0286	INSTRUCTION BOOK	1	
	TSXN063	CONNECTION CABLE	1	
10	TTUA0304	REAR COVER	1	
11	TTYA0406	FRONT CABINET	1	
	TXFBM019TA8	MODEL NAME PLATE	1	
	TXFNL017FB3	LIQUID CRYSTAL DISPLAY	1	
12	XQN2+A2FN	SCREW	4	
13	XSB2+4FZ	SCREW	3	
14	XSN26+4	SCREW	6	
15	XTB26+6C	SCREW	3	
16	XTN26+12GFZ	SCREW	4	
17	XYN26+E6	SCREW	1	

# 10 Replacement Parts List

## Important Safety Notice

Components identified by  $\Delta$  mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturer's specified parts.

### RLT (Retention Time Limited)

#### note:

The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.

After the end of this period, the assembly will no longer be available.

Avvreviation of part name and description

#### 1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

Type	Allowance
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

#### 2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Ceramic	C : $\pm 0.25\text{pF}$
E : Electrolytic	D : $\pm 0.5\text{pF}$
P : Polyester	F : $\pm 1\text{pF}$
Polyprop	G : $\pm 3\text{pF}$
lene	J : $\pm 5\text{pF}$
T : Tantalum	K : $\pm 10\text{pF}$
	L : $\pm 15\text{pF}$
	M : $\pm 20\text{pF}$
	P : $+100\%, -0\%$
	Z : $+80\%, -20\%$

## 10.1. ELECTRICAL REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TNPA1473AA	CIRCUIT BOARD C2	1	
RTL	TNPH0268AF	CIRCUIT BOARD B	1	
B1	TJSF40020	20P CONNECTOR	1	
B2	TJSF36530	CONNECTOR	1	
B3	TSXL027-1	PARALLEL REED	1	
B4	TJSF21102	CONNECTOR	1	
B5	TJS8A9590	2P CONNECROT	1	
C501,02	ECJ2VB1C104K	C 0.1UF K 16V	2	
C503	ECUX1H222KBN	C 2200PFK50V	1	
C504	ECJ3XB1C105K	C 1UFK16V	1	
C505	ECUX1H222KBN	C 2200PFK50V	1	
C506	ECJ2VB1C104K	C 0.1UFK16V	1	
C507	ECJ3XB1C105K	C 1UFK16V	1	
C508	ECJ2VF1H104Z	C 0.1UFZ50V	1	
C509	ECA1AHG331	E 330UF10V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C601	ECA1CEN100	E 10UF16V	1	
C603	ECA1AHG221	E 220UF10V	1	
C604	ECJ2VF1H104Z	C 0.1UFZ50V	1	
C606	ECUX1H390JCV	C 39PFJ50V	1	
C607	ECUX1H820JCG	C 82PFJ50V	1	
C608	ECUX1H390JCV	C 39PFJ50V	1	
C609	ECUX1H820JCG	C 82PFJ50V	1	
C610	ECUX1H680JCV	C 68PFJ50V	1	
C611	ECUX1H220JCN	C 22PFJ50V	1	
C612	ECUX1H102JCX	C 1000PFJ50V	1	
C615	ECUX1H102JCX	C 1000PFJ50V	1	
C616	ECJ2VF1H104Z	C 0.1UFZ50V	1	
C617	EEAGA1C100H	E 10UF16V	1	
C618,19	ECJ2VF1H104Z	C 0.1UFZ50V	2	
C620	EEAGA1C100H	E 10UF16V	1	
C622	ECJ3XB1C105K	C 1UFK16V	1	
C623	ECUX1H820JCG	C 82PFJ50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C624	ECA1HEN2R2	E2.2UF50V	1	
C625	ECUX1H102KBN	C1000PFK50V	1	
C626	ECJ3VB1C474K	C0.47UFK16V	1	
C627	ECUX1H223KBX	C0.022UFK50V	1	
C628	EEAGA1C150H	E15UF16V	1	
C629	EEAGA1H2R2H	E2.2UF50V	1	
C630	ECUX1H102JCX	C1000PFJ50V	1	
C631	ECJ2VB1C104K	C0.1UFK16V	1	
C632	ECUX1H223KBX	C0.022UFK50V	1	
C633	ECUX1H181JCG	C180PFJ50V	1	
C634	ECJ3XB1C105K	C1UFK16V	1	
C635	ECUX1H223KBX	C0.022UFK50V	1	
C636	ECUX1H330JCV	C33PFJ50V	1	
C637	ECJ2VB1C104K	C0.1UFK16V	1	
C639	ECUX1H220JCV	C22PFJ50V	1	
C640	TACCA1H4R7MT	CERAMIC CAPACITOR	1	
C642	ECA1AHG331	E330UF10V	1	
C643	ECJ3VF1C225Z	C2.2UFZ16V	1	
C644	EEAGA1C150H	E15UF16V	1	
C645-47	ECJ3XB1C105K	C1UFK16V	3	
C651	ECJ2VF1C105Z	C1UFZ16V	1	
C652,53	ECJ3XB1C105K	C1UFK16V	2	
C654,55	EEAGA1C100H	E10UF16V	2	
C656	ECJ3VF1C225Z	C2.2UFZ16V	1	
C657-59	EEAGA1H2R2H	E2.2UF50V	3	
C660	ECUX1H103KBG	C0.01UFK50V	1	
C661	EEAGA1A101	E100UF10V	1	
C662	ECJ2VF1H104Z	C0.1UFZ50V	1	
C663	ECJ3XB1C105K	C1UFK16V	1	
C664	ECUX1H102JCX	C1000PFJ50V	1	
C665	EEAGA1C470H	E47UF16V	1	
C666	ECJ2VF1H104Z	C0.1UFZ50V	1	
C667	ECUX1H221JCV	C220PFJ50V	1	
C668	ECUX1H221JCV	C220PFJ50V	1	
C669	ECUX1H030CCV	C3PF50V	1	
C671	ECUX1H102JCX	C1000PFJ50V	1	
C672	ECJ3XB1C105K	C1UFK16V	1	
C673	ECJ2VB1E473K	C0.047UFK25V	1	
C674	ECJ2VF1H104Z	C0.1UFZ50V	1	
C675	ECUX1H561JCV	C560PFJ50V	1	
C676	ECJ2VB1C104K	C0.1UFK16V	1	
C701	ECUX1H103KBG	C0.01UFK50V	1	
C702	ECJ2VF1H104Z	C0.1UFZ50V	1	
C703,04	ECUX1H103KBG	C0.01UFK50V	2	
C705	ECCD3G180JG	C18PFJ4KV	1	
C706	ECQV1H683JM	P0.068UFJ50V	1	
C707,08	ECUX1H150JCN	C15PFJ50V	2	
C709	ECJ2VF1H104Z	C0.1UFZ50V	1	
C711	EEUFC1C331	E330UF16V	1	
C851	ECKF1H103ZF	C0.01UFZ50V	1	
C853	EEAGA1E100H	E10UF25V	1	
C854	ECA1AHG331	E330UF10V	1	
C855	ECUX1H102KBN	C1000PFK50V	1	
C856	ECA1EHG221	E220UF25V	1	
C857	ECJ2VF1H104Z	C0.1UFZ50V	1	
C858	ECA1EHG470	E47UF25V	1	
C859	ECA1EHG221	E220UF25V	1	
C860	ECUX1H222KBN	C2200PFK50V	1	
C861	ECA1CHG101	E100UF16V	1	
C862	ECJ2VF1H104Z	C0.1UFZ50V	1	
C863	ECA1CHG101	E100UF16V	1	
C864	ECJ2VF1H104Z	C0.1UFZ50V	1	
C865	ECA1AHG221	E220UF10V	1	
C866	ECUX1H103KBG	C0.01UFK50V	1	
C867	EEAGA1A101	E100UF10V	1	
C868	ECUX1H103KBG	C0.01UFK50V	1	
C869	TAC16SA33MC1	ELECTROLYTIC CAPACITOR	1	
C870	ECJ2VF1H104Z	C0.1UFZ50V	1	
C871	ECA1AHG221	E220UF10V	1	
C872	ECJ2VF1H104Z	C0.1UFZ50V	1	
C873	EEAGA1E330H	E33UF25V	1	
C874	ECJ2VF1H104Z	C0.1UFZ50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C875	EEAGA1E330H	E33UF25V	1	
C876	ECJ2VF1H104Z	C0.1UFZ50V	1	
C877	ECUX1H103KBG	C0.01UFK50V	1	
C878	ECJ3VF1E474Z	C0.47UFZ25V	1	
C879	ECUX1H103KBG	C0.01UFK50V	1	
C880	ECJ3VF1C225Z	C2.2UFZ16V	1	
C882	ECJ2VB1C224K	C0.22UFK16V	1	
C883	ECUX1H103KBG	C0.01UFK50V	1	
C885	EEAGA1C100H	E10UF16V	1	
C886	ECUX1H102JCX	C1000PFJ50V	1	
C887	EEUFC1E221	E220UF25V	1	
C888	ECUX1H103KBG	C0.01UFK50V	1	
C891	EEUFC1C331	E330UF16V	1	
C892	TAC16SA33MC1	ELECTROLYTIC CAPACITOR	1	
C893	ECJ3VF1C225Z	C2.2UFZ16V	1	
C894	ECJ3XB1C105K	C1UFK16V	1	
C895	ECUX1H103KBG	C0.01UFK50V	1	
C901	EEAGA1C470H	E47UF16V	1	
C902	ECJ2VF1H104Z	C0.1UFZ50V	1	
C903	EEAGA1C470H	E47UF16V	1	
C904	ECJ2VF1H104Z	C0.1UFZ50V	1	
C905	ECJ2VF1C474Z	C0.47UFZ16V	1	
C906	ECUX1H222JCX	C2200PFJ50V	1	
C907	ECUX1H151JCV	C150PFJ50V	1	
C908	ECUX1H102JCX	C1000PFJ50V	1	
C909	ECJ2VB1C104K	C0.1UFK16V	1	
C910	ECUX1H561JCV	C560PFJ50V	1	
C911,12	ECJ2VB1C104K	C0.1UFK16V	2	
C916,17	ECJ2VF1H104Z	C0.1UFZ50V	2	
C921,22	ECJ2VF1H104Z	C0.1UFZ50V	2	
C923	ECUX1H220JCN	C22PFJ50V	1	
C924,25	ECJ3VB1C474K	C0.47UFK16V	2	
C926	EEAGA1C100H	E10UF16V	1	
C927	ECJ3XB1C105K	C1UFK16V	1	
C928	TACCA1H4R7MT	CERAMIC CAPACITOR	1	
C929	ECJ2VF1C474Z	C0.47UFZ16V	1	
C930	ECJ3XF1E105Z	C1UFZ25V	1	
C931	ECJ3VF1C225Z	C2.2UFZ16V	1	
C932	EEAGA1A101	E100UF10V	1	
C933	ECJ2VF1C474Z	C0.47UFZ16V	1	
C934	EEAGA1A101	E100UF10V	1	
C935	ECJ2VF1C474Z	C0.47UFZ16V	1	
C937	ECJ2VF1C474Z	C0.47UFZ16V	1	
C938	ECJ3XB1C105K	C1UFK16V	1	
C939	ECJ2VF1H104Z	C0.1UFZ50V	1	
C940	ECUX1H681JCV	C680PFJ50V	1	
C941	ECUX1H390JCG	C39PFJ50V	1	
C942	ECUX1H101JCG	C100PFJ50V	1	
C943	ECUX1H221JCG	C200PFJ50V	1	
C944	ECJ2VF1H104Z	C0.1UFZ50V	1	
C945	ECUX1H103KBG	C0.01UFK50V	1	
C946	ECJ2VF1H104Z	C0.1UFZ50V	1	
C947	ECJ1VB1H103K	C0.01UFK50V	1	
C948	ECUX1H103KBG	C0.01UFK50V	1	
C1201	ECJ2VF1C474Z	C0.47UFZ16V	1	
C1202	ECJ3VF1C225Z	C2.2UFZ16V	1	
C1203	ECJ2VF1H104Z	C0.1UFZ50V	1	
C1204	ECUX1H102JCX	C1000PFJ50V	1	
C1205	ECJ3XB1C105K	C1UFK16V	1	
C1206	ECUX1H101JCG	C100PFJ50V	1	
C1208 09	ECUX1H150JCV	C15PFJ50V	2	
C1210	ECJ2VF1H104Z	C0.1UFZ50V	1	
C1216	ECUX1H102JCX	C1000PFJ50V	1	
C1217	ECUX1H102JCV	C1000PFJ50V	1	
C1218 19	ECUX1H470JCG	C47PFJ50V	2	
C1220	ECJ3VF1C225Z	C2.2UFZ16V	1	
C1224	ECJ2VF1H104Z	C0.1UFZ50V	1	
C1225	ECUX1H103KBG	C0.01UFK50V	1	
C1226	ECJ2VF1H104Z	C0.1UFZ50V	1	
C1227 28	ECUX1H221JCV	C220PFJ50V	2	
C1229	ECUX1H103KBG	C0.01UFK50V	1	
C1230	ECUX1H182KBV	C1800PFK50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1371	ECJ3VF1C225Z	C 2.2UFZ16V	1	
C1372	ECJ2VF1C474Z	C 0.47UFZ16V	1	
D501,02	MA8160	ZENER DIOED	2	
D620	MA704A	DIODE	1	
D702	MA8120	ZENER DIOED	1	
D703	MA111	DIODE	1	
D851	MA153A	DIODE	1	
D852	DCB010	DIODE	1	
D853,54	SFPB-64V	DIODE	2	
D855	DCB010	DIODE	1	
D856	MA111	DIODE	1	
D859,60	SFPB-64V	DIODE	2	
D861	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
D901	MA338	DIODE.SI	1	
D903-05	MA111	DIODE	3	
D909-12	MA8360	ZENER DIOED	4	
D1201-03	MA111	DIODE	3	
D1204	MA8068	ZENER DIOED	1	
D1205	MA8360	ZENER DIOED	1	
D1207 08	MA8068	ZENER DIOED	2	
D1212	MA8360	ZENER DIOED	1	
D1219	MA8360	ZENER DIOED	1	
D1220 21	MA111	DIODE	2	
D1371	MA8160	ZENER DIOED	1	
D1372	MA8068	ZENER DIOED	1	
D1374 75	MA8160	ZENER DIOED	2	
D1376	TVSD0004	DIODE	1	
D6601 02	MA8068	ZENER DIOED	2	
IC501	TVSA0187	IC	1	
IC502	TDA7052A	LINEAR IC	1	
IC620	AN2526FH	LINEAR IC	1	
IC621	TVS1129	IC	1	
IC622	TDA4662T-T	LINEAR IC	1	
IC623	TVCA0011	IC	1	
IC681	IMZ1AT108	IC	1	
IC701	TVSA0023	IC	1	
IC851	FA7611M	LINEAR IC	1	
IC852	FMC4	TRANSISTOR	1	
IC853	AN78L05M	LINEAR IC	1	
IC854	IMZ1AT108	IC	1	
IC901	TVSA0332	IC	1	
IC902	LMC7101AIM5X	IC	1	
IC903	TVSA0304	IC	1	
IC904	NJM072BV	LINEAR IC	1	
IC907,08	IMZ1AT108	IC	2	
IC909	MN13821-G	MOS IC	1	
IC1201	TVSA0443	IC	1	
IC1202	MN1382-R	MOS IC	1	
IC1203	TVSA0041	IC	1	
IC1207	TVSA0272	IC	1	
IC1208 09	IMZ1AT108	IC	2	
IC1210	FMC4	TRANSISTOR	1	
IC1371	PNA4603H00LB	PHOTO IC	1	
IC1372	FMC4	TRANSISTOR	1	
IC6601	TVSA0304	IC	1	
ICP851	UN11020	TRANSISTOR	1	
JAA3	ERJ6GEY0R00	M0 OHMJ1/10W	1	
JAF1	ERJ6GEY0R00	M0 OHMJ1/10W	1	
L601	ELJFA470JB	CHIP INDUCTOR	1	
L602	ELJFA330JB	CHIP INDUCTOR	1	
L603	ELJFA220JB	CHIP INDUCTOR	1	
L605	ELJPA221KB	CHIP INDUCTOR	1	
L606	TLX121KA01	PEAKING COIL	1	
L608	ELJPA101KB	CHIP INDUCTOR	1	
L701	TLPP055	CHOKE COIL	1	
L851	TLPP023	CHOKE COIL	1	
L852	TLPP003	CHOKE COIL	1	
L853	ELJPA101KB	CHIP INDUCTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L854,55	TLX121KA01	PEAKING COIL	2	
L856	ELJPA101KB	CHIP INDUCTOR	1	
L857	TLPP055	CHOKE COIL	1	
L901	ELJPA100KB	CHIP INDUCTOR	1	
L902	ELJPA101KB	CHIP INDUCTOR	1	
L903	ELJNA1R2JB	CHIP INDUCTOR	1	
L904,05	ELJPA101KB	CHIP INDUCTOR	2	
L906-08	TSK1045	BEAD CHOKE	3	
L909-14	ERJ3GEYJ102	M1KOHMJ1/16W	6	
L915-17	TSKA161	BEAD CHOKE	3	
L918	ERJ3GEYJ103	M10KOHMJ1/16W	1	
L919	ERJ3GEYJ102	M1KOHMJ1/16W	1	
L920-22	ERJ6GEYJ102	M1KOHMJ1/10W	3	
L1201	TSK1045	BEAD CHOKE	1	
L1205	ELJFA5R6JB	CHIP INDUCTOR	1	
L1206-08	TSK1045	BEAD CHOKE	3	
LC901-03	ELKS101FA	NOISE FILTER	3	
Q621	2SD1819A	TRANSISTOR	1	
Q622	UN5213	TRANSISTOR	1	
Q623	2SB1218A	TRANSISTOR	1	
Q701	2SJ377	TRANSISTOR	1	
Q702,03	2SD1803T	TRANSISTOR	2	
Q704,05	2SD1819A	TRANSISTOR	2	
Q706	TVSF0001	TRANSISTOR	1	
Q851	2SD1803T	TRANSISTOR	1	
Q852	2SJ377	TRANSISTOR	1	
Q855,56	2SD1119	TRANSISTOR	2	
Q857	2SD1819A	TRANSISTOR	1	
Q903	2SD1819A	TRANSISTOR	1	
Q904	2SB1218A	TRANSISTOR	1	
Q905	2SD1819A	TRANSISTOR	1	
Q906	2SB1218A	TRANSISTOR	1	
Q907,08	2SD1819A	TRANSISTOR	2	
Q909	TVSF0001	TRANSISTOR	1	
Q910	2SD1819A	TRANSISTOR	1	
Q1202-04	TVSF0001	TRANSISTOR	3	
Q1205	2SC2404C	TRANSISTOR	1	
Q1207-11	TVSF0001	TRANSISTOR	5	
Q1213	UN5111	TRANSISTOR	1	
Q1214	UN5114	TRANSISTOR	1	
Q1371 72	UN5111	TRANSISTOR	2	
Q6601	2SD1819A	TRANSISTOR	1	
Q6602	2SB1218A	TRANSISTOR	1	
Q6603-07	2SD1819A	TRANSISTOR	5	
R501,02	ERJ3GEYJ560	M 56 OHMJ1/16W	2	
R504,05	ERJ6GEYJ223	M 22KOHMJ1/10W	2	
R506,07	ERJ6GEYJ103	M 10KOHMJ1/10W	2	
R508,09	ERJ6GEYJ223	M22KOHMJ1/10W	2	
R510	ERJ6GEYJ822	M8.2KOHMJ1/10W	1	
R511	ERJ6GEYJ222	M2.2KOHMJ1/10W	1	
R601	ERJ6GEYJ750	M 75 OHMJ1/10W	1	
R603	ERJ6GEYJ223	M 22KOHMJ1/10W	1	
R604	ERJ3GEYJ153	M 15KOHMJ1/16W	1	
R605	ERJ6GEYJ222	M2.2KOHMJ1/10W	1	
R606	ERJ3EKF2201	M2.2KOHMJ1/16W	1	
R608	ERJ3EKF2701	M2.7KOHMJ1/16W	1	
R609	ERJ6GEYJ101	M 100 OHMJ1/10W	1	
R610,11	ERJ3GEYJ102	M 1KOHMJ1/16W	2	
R612-14	ERJ3GEYJ821	M820 OHMJ1/16W	3	
R615	ERJ6GEYJ821	M820 OHMJ1/10W	1	
R616,17	ERJ3GEYJ681	M680 OHMJ1/16W	2	
R618-21	ERJ6GEYJ103	M 10KOHMJ1/10W	4	
R622	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R623	ERJ3GEYJ153	M 15KOHMJ1/16W	1	
R624	ERJ3GEYJ332	M 3.3KOHMJ1/16W	1	
R627	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R628	ERJ3GEYJ333	M 33KOHMJ1/16W	1	
R631	ERJ3GEYJ473	M 47KOHMJ1/16W	1	
R632	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R633	ERJ3GEYJ821	M 820 OHMJ1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R634	ERJ6GEYJ102	M 1KOHMJ1/10W	1	
R635	ERJ6GEYJ331	M 330 OHMJ1/10W	1	
R636	ERJ6GEYJ102	M 1KOHMJ1/10W	1	
R637	ERJ6GEYJ471	M 470 OHMJ1/10W	1	
R638	ERJ6GEYJ104	M 100KOHMJ1/10W	1	
R642	ERJ3GEY0R00	M 0 OHMJ1/16W	1	
R643	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R644	ERJ6GEYJ472	M 4.7KOHMJ1/10W	1	
R645	ERJ3GEY0R00	M 0 OHMJ1/16W	1	
R646	ERJ3GEYJ473	M47KOHMJ1/16W	1	
R647	ERJ6GEYJ474	M470KOHMJ1/10W	1	
R648	ERJ3GEYJ474	M470KOHMJ1/16W	1	
R649	ERJ6GEYJ105	M10KOHMJ1/10W	1	
R651	ERJ6GEYJ512	M5.1KOHMJ1/10W	1	
R657	ERJ6GEYJ100	M 10 OHMJ1/10W	1	
R660	ERJ6GEYJ104	M 100KOHMJ1/10W	1	
R661	ERJ6GEYJ470	M47 OHMJ1/10W	1	
R662	ERJ6GEYJ333	M33KOHMJ1/10W	1	
R663	ERJ3GEYJ332	M3.3KOHMJ1/16W	1	
R664	ERJ6GEYJ101	M100 OHMJ1/10W	1	
R665	ERJ6GEYJ102	M1KOHMJ1/10W	1	
R666	ERJ3GEYJ182	M1.8KOHMJ1/16W	1	
R667	ERJ3GEYJ103	M10KOHMJ1/16W	1	
R668,69	ERJ3GEYJ823	M82KOHMJ1/16W	2	
R670	ERJ3GEYJ104	M100KOHMJ1/16W	1	
R671-73	ERJ6GEYJ101	M100 OHMJ1/10W	3	
R677	ERJ6GEYJ121	M120 OHMJ1/10W	1	
R678	ERJ6ENF2203	M220KOHMJ1/10W	1	
R679	ERJ6GEYJ473	M47KOHMJ1/10W	1	
R681	ERJ6GEYJ393	M39KOHMJ1/10W	1	
R683	ERJ6GEYJ102	M1KOHMJ1/10W	1	
R701,02	ERJ6GEYJ102	M1KOHMJ1/10W	2	
R703	ERJ14YKR56H	M0.56 OHM K1/4W	1	
R704	ERJ6GEYJ333	M33KOHMJ1/10W	1	
R705	ERJ14YKR56H	M0.56 OHMK1/4W	1	
R706	TAR21JD681D	METAL FILM OXIDE RESISTOR1		
R707	TAR21JD471D	METAL FILM OXIDE RESISTOR1		
R708,09	TAR21JD272D	METAL FILM OXIDE RESISTOR2		
R710	TAR21JD561D	METAL FILM OXIDE RESISTOR1		
R711,12	ERJ6GEYJ332	M 3.3KOHMJ1/10W	2	
R713	ERJ6GEYJ330	M 33 OHMJ1/10W	1	
R714	ERJ6GEYJ562	M 5.6KOHMJ1/10W	1	
R715	ERJ6GEYJ822	M 8.2KOHMJ1/10W	1	
R716	ERJ6GEYJ563	M 56KOHMJ1/10W	1	
R851	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R853	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R855	ERJ6GEYJ100	M 10 OHMJ1/10W	1	
R856	ERJ6GEYJ223	M 22KOHMJ1/10W	1	
R857	ERJ6GEYJ103	M 10KOHMJ1/10W	1	
R858	ERJ6GEYJ102	M 1KOHMJ1/10W	1	
R859	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R862	ERJ14YJ821	M 820 OHMJ1/4W	1	
R863	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R864	ERJ6GEYJ223	M 22KOHMJ1/10W	1	
R865	ERJ6GEYJ823	M 82KOHMJ1/10W	1	
R866	ERJ6GEYJ394	M 390KOHMJ1/10W	1	
R867	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R868	ERJ6GEYJ100	M 10 OHMJ1/10W	1	
R869	ERJ6GEYJ102	M 1KOHMJ1/10W	1	
R870	ERJ6GEYJ222	M 2.2KOHMJ1/10W	1	
R871	ERJ6GEYJ273	M 27KOHMJ1/10W	1	
R872	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R873	ERJ3GEYJ100	M 10 OHMJ1/16W	1	
R874	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R875	ERJ6GEYJ222	M 2.2KOHMJ1/10W	1	
R876	ERJ6GEYJ101	M 100 OHMJ1/10W	1	
R877	ERJ6GEYJ394	M 390KOHMJ1/10W	1	
R878	ERJ6GEYJ273	M 27KOHMJ1/10W	1	
R879	ERJ3GEYJ122	M 1.2KOHMJ1/16W	1	
R880	ERJ6GEYJ273	M 27KOHMJ1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R881	ERJ6GEYJ394	M 390KOHMJ1/10W	1	
R882	ERJ6GEYJ153	M 15KOHMJ1/10W	1	
R883	ERJ6GEYJ184	M 180KOHMJ1/10W	1	
R884	ERJ6GEYJ560	M 56 OHMJ1/10W	1	
R885	ERJ6GEYJ392	M 3.9KOHMJ1/10W	1	
R886	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R901,02	ERJ3GEYJ103	M 10KOHMJ1/16W	2	
R904,05	ERJ3GEYJ103	M 10KOHMJ1/16W	2	
R907-09	ERJ6GEYJ102	M 1KOHMJ1/10W	3	
R910-14	ERJ3GEYJ103	M 10KOHMJ1/16W	5	
R916	ERJ6GEYJ102	M 1KOHMJ1/10W	1	
R918	TAR21JD103D	METAL FILM OXIDE RESISTOR1		
R919	ERJ6GEYJ474	M 470KOHMJ1/10W	1	
R920	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R921	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R922	ERJ6GEYJ102	M 1KOHMJ1/10W	1	
R923	ERJ3GEYJ683	M 68KOHMJ1/16W	1	
R924	ERJ3GEYJ105	M 10KOHMJ1/16W	1	
R925	ERJ3GEYJ223	M 22KOHMJ1/16W	1	
R926	ERJ3GEYJ473	M 47KOHMJ1/16W	1	
R927	ERJ3GEYJ683	M 68KOHMJ1/16W	1	
R928	ERJ3GEYJ272	M 2.7KOHMJ1/16W	1	
R929	ERJ6GEYJ222	M 2.2KOHMJ1/10W	1	
R930-33	ERJ6GEYJ101	M 100 OHMJ1/10W	4	
R934-39	ERJ6GEY0R00	M 0 OHMJ1/10W	6	
R940,41	ERJ3GEY0R00	M 0 OHMJ1/16W	2	
R942,43	ERJ6GEYJ102	M 1KOHMJ1/10W	2	
R944	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R945	ERJ6GEYJ472	M 4.7KOHMJ1/10W	1	
R946	ERJ3GEY0R00	M 0 OHMJ1/16W	1	
R948	ERJ6GEYJ472	M 4.7KOHMJ1/10W	1	
R949	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R959	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R960	ERJ3GEYJ331	M 330 OHMJ1/16W	1	
R961	ERJ3EKF1001	M 1KOHMJ1/16W	1	
R962	ERJ6ENF1001	M 1KOHMJ1/10W	1	
R963,64	ERJ3GEYJ103	M 10KOHMJ1/16W	2	
R965	ERJ3GEYJ473	M 47KOHMJ1/16W	1	
R966	ERJ3GEY0R00	M 0 OHMJ1/16W	1	
R969	ERJ6GEYJ822	M 8.2KOHMJ1/10W	1	
R970	ERJ6ENF3302	M 33KOHMJ1/10W	1	
R971	ERJ3EKF5602	M 56KOHMJ1/16W	1	
R972	ERJ3GEYJ104	M 100KOHMJ1/16W	1	
R973	ERJ6GEYJ273	M 27KOHMJ1/10W	1	
R974	ERJ6GEYJ154	M 150KOHMJ1/10W	1	
R975	ERJ3GEYJ154	M 150KOHMJ1/16W	1	
R976	ERJ3GEYJ104	M 100KOHMJ1/16W	1	
R977	ERJ3GEYJ123	M 12KOHMJ1/16W	1	
R978	ERJ3GEYJ470	M 47 OHMJ1/16W	1	
R979	ERJ3GEYJ823	M 82KOHMJ1/16W	1	
R980	ERJ3GEYJ123	M 12KOHMJ1/16W	1	
R981	ERJ3GEYJ470	M 47 OHMJ1/16W	1	
R982	ERJ3GEYJ823	M 82KOHMJ1/16W	1	
R983	ERJ3GEYJ123	M 12KOHMJ1/16W	1	
R984	ERJ3GEYJ470	M 47 OHMJ1/16W	1	
R985	ERJ6GEYJ104	M 100KOHMJ1/10W	1	
R986	ERJ3GEYJ154	M 150KOHMJ1/16W	1	
R987	ERJ3GEYJ123	M 12KOHMJ1/16W	1	
R988	ERJ3GEYJ470	M 47 OHMJ1/16W	1	
R989	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R990	ERJ6GEYJ472	M 4.7KOHMJ1/10W	1	
R991	ERJ6GEYJ822	M 8.2KOHMJ1/10W	1	
R992	ERJ6GEYJ100	M 10 OHMJ1/10W	1	
R994	ERJ3GEYJ100	M 10 OHMJ1/16W	1	
R995	ERJ3GEYJ563	M 56KOHMJ1/16W	1	
R996	ERJ6GEYJ223	M 22KOHMJ1/10W	1	
R997	ERJ6GEYJ184	M 180KOHMJ1/10W	1	
R998	ERJ3GEYJ273	M 27KOHMJ1/16W	1	
R999	ERJ3GEYJ272	M 2.7KOHMJ1/16W	1	
R1201-04	ERJ6GEYJ101	M 100 OHMJ1/10W	4	
R1205	ERJ6GEYJ331	M 330 OHMJ1/10W	1	
R1208	ERJ6GEYJ331	M 330 OHMJ1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1211	ERJ6GEYJ331	M 330 OHMJ1/10W	1	
R1212	ERJ6GEYJ472	M 4.7KOHMJ1/10W	1	
R1213	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R1218	ERJ3GEYJ473	M 47KOHMJ1/16W	1	
R1219	ERJ6GEYJ103	M 10KOHMJ1/10W	1	
R1220	ERJ6GEYJ102	M 1KOHMJ1/10W	1	
R1221	ERJ3GEYJ152	M 1.5KOHMJ1/16W	1	
R1222 23	ERJ6GEYJ473	M 47KOHMJ1/10W	2	
R1224	ERJ3GEYJ104	M 100KOHMJ1/16W	1	
R1225	ERJ3GEYJ681	M 680 OHMJ1/16W	1	
R1226	ERJ3GEYJ471	M 470 OHMJ1/16W	1	
R1227	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1228	ERJ6GEYJ103	M 10KOHMJ1/10W	1	
R1229 30	ERJ3GEYJ563	M 56KOHMJ1/16W	2	
R1231	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1233	ERJ3GEY0R00	M 0 OHMJ1/16W	1	
R1234	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1235	ERJ6GEYJ103	M 10KOHMJ1/10W	1	
R1236	ERJ6GEYJ562	M 5.6KOHMJ1/10W	1	
R1237	ERJ3GEYJ332	M 3.3KOHMJ1/16W	1	
R1238	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1240 41	ERJ6GEYJ103	M 10KOHMJ1/10W	2	
R1242	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1243	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R1245	ERJ6GEYJ103	M 10KOHMJ1/10W	1	
R1246	ERJ3EKF3300	M 330 OHMJ1/16W	1	
R1247	ERJ3EKF5601	M 5.6KOHMJ1/16W	1	
R1266	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1267-69	ERJ3GEYJ101	M 100 OHMJ1/16W	3	
R1270	ERJ3GEYJ102	M 1KOHMJ1/16W	1	
R1271	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1272	ERJ6GEYJ224	M 220KOHMJ1/10W	1	
R1273	ERJ6GEYJ122	M 1.2KOHMJ1/10W	1	
R1274	ERJ6GEYJ272	M 2.7KOHMJ1/10W	1	
R1275	ERJ6GEYJ392	M 3.9KOHMJ1/10W	1	
R1276	ERJ6GEYJ622	M 6.2KOHMJ1/10W	1	
R1277	ERJ6GEYJ153	M 15KOHMJ1/10W	1	
R1278	ERJ6GEYJ473	M 47KOHMJ1/10W	1	
R1281	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R1282 83	ERJ6GEYJ103	M 10KOHMJ1/10W	2	
R1285	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R1287	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R1289	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R1291-93	ERJ6GEYJ101	M 100 OHMJ1/10W	3	
R1294	ERJ3GEYJ101	M 100 OHMJ1/16W	1	
R1295	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1296	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R1298	ERJ6GEY0R00	M 0 OHMJ1/10W	1	
R1300 01	ERJ3GEYJ103	M 10KOHMJ1/16W	2	
R1302	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R1303	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1304	ERJ3GEYJ223	M 22KOHMJ1/16W	1	
R1305	ERJ3GEYJ103	M 10KOHMJ1/16W	1	
R1306	ERJ3GEYJ472	M 4.7KOHMJ1/16W	1	
R1307	ERJ3GEYJ102	M 1KOHMJ1/16W	1	
R1308	ERJ3GEY0R00	M 0 OHMJ1/16W	1	
R1371	ERJ6GEYJ470	M 47 OHMJ1/10W	1	
R1372 73	ERJ6GEYJ103	M 10KOHMJ1/10W	2	
R1374	ERJ6GEYJ681	M 680 OHMJ1/10W	1	
R1375	ERJ6GEYJ471	M 470 OHMJ1/10W	1	
R9912	ERJ6GEYJ103	M 10KOHMJ1/10W	1	
R9914	ERJ3GEYJ332	M 3.3KOHMJ1/16W	1	
R9915	ERJ3GEY0R00	M 0 OHMJ1/16W	0 1	
R9916	ERJ3GEYJ101	M 100 OHMJ1/16W	1	
RM1371	PNA4602M00LB	REMOTE CONTROL RECEIVER	1	
SW1201-06	TS8002	SWITCH	6	
T701	ETJ18K14AM	TRANSFORMER	1	
T851	ETJ11K49AM	DC/DC TRANS	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
TH901	TAR28GJ303D	THYRISTOR	1	
TH1201	TAR28GJ303D	THYRISTOR	1	
VR851	EVM3YGA00B24	CONTROL 20KOHMB	1	
VR852	EVM3YGA00B23	CONTROL 2KOHMB	1	
VR863	EVM3YGA00B13	CONTROL 1KOHMB	1	
VR901	EVM3YGA00B14	CONTROL 10KOHMB	1	
X601	TSSA040	CRYSTAL	1	
X602	TSSA130	CRYSTAL	1	
X1201	TSSA127	CRYSTAL	1	

